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1 [Distributed systems - programming and management: On remote procedure call](#)

Patricia Gomes Soares

 November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**

 Full text available: [pdf\(4.52 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

2 [Switcherland: a QoS communication architecture for workstation clusters](#)

Hans Eberle, Erwin Oertli

 April 1998 **ACM SIGARCH Computer Architecture News , Proceedings of the 25th annual international symposium on Computer architecture**, Volume 26 Issue 3

 Full text available: [pdf\(1.32 MB\)](#)

[Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computer systems have become powerful enough to process continuous data streams such as video or animated graphics. While processing power and communication bandwidth of today's systems typically are sufficient, quality of service (QoS) guarantees as required for handling such data types cannot be provided by these systems in adequate ways. We present Switcherland, a scalable communication architecture based on crossbar switches that provides QoS guarantees for workstation clusters in the form of ...

3 [The V distributed system](#)

David Cheriton

 March 1988 **Communications of the ACM**, Volume 31 Issue 3

 Full text available: [pdf\(2.55 MB\)](#)


 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The V distributed System was developed at Stanford University as part of a research project to explore issues in distributed systems. Aspects of the design suggest important directions for the design of future operating systems and communication systems.

4 [Hierarchically-organized, multihop mobile wireless networks for quality-of-service support](#)

Ram Ramanathan, Martha Steenstrup

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1


Full text available:  [pdf\(429.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

MMWN is a modular system of adaptive link- and network-layer algorithms that provides a foundation on which to build mechanisms for quality-of-service provision in large, multihop mobile wireless networks. Such networks are a practical means for creating a communications infrastructure where none yet exists or where the previously existing infrastructure has been severely damaged. These networks provide communications for such diverse purposes as tactical maneuvering and strategic planning ...

5 4.2BSD and 4.3BSD as examples of the UNIX system

John S. Quarterman, Abraham Silberschatz, James L. Peterson

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4


Full text available:  [pdf\(4.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

6 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2


Full text available:  [pdf\(276.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuating link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

7 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available:  [pdf\(5.49 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

8 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Full text available:  [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

9 Implementation and evaluation of a QoS-capable cluster-based IP router

Prashant Pradhan, Tzi-cker Chiueh

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Full text available:  [pdf\(215.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A major challenge in Internet edge router design is to support both high packet forwarding performance and versatile and efficient packet processing capabilities. The thesis of this research project is that a cluster of PCs connected by a high speed system area network provides an effective hardware platform for building routers to be used at the edges of the Internet. This paper describes a scalable and extensible edge router architecture called *Panama*, which supports a novel aggregate r ...

10 A survey of commercial parallel processors

Edward Gehringer, Janne Abullarade, Michael H. Guly

September 1988 **ACM SIGARCH Computer Architecture News**, Volume 16 Issue 4


Full text available:  [pdf\(2.96 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper compares eight commercial parallel processors along several dimensions. The processors include four shared-bus multiprocessors (the Encore Multimax, the Sequent Balance system, the Alliant FX series, and the ELXSI System 6400) and four network multiprocessors (the BBN Butterfly, the NCUBE, the Intel iPSC/2, and the FPS T Series). The paper contrasts the computers from the standpoint of interconnection structures, memory configurations, and interprocessor communication. Also, the share ...

11 A hybrid handover protocol for local area wireless ATM networks

Chai-Keong Toh

December 1996 **Mobile Networks and Applications**, Volume 1 Issue 3


Full text available:  [pdf\(960.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While handovers of voice calls in a wide area mobile environment are well understood, handovers of multi-media traffic in a local area mobile environment is still in its early stage of investigation. Unlike the public wireless networks, handovers for multi-media Wireless LANs (WLANs) have special requirements. In this paper, the problems and challenges faced in a multi-media WLAN environment are outlined and a multi-tier wireless cell clustering architecture is introduced. Design issues for ...

12 Data replicas in distributed information services

H. M. Gladney

March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1


Full text available:  [pdf\(1.94 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In an information distribution network in which records are repeatedly read, it is cost-effective to keep read-only copies in work locations. This paper presents a method of updating replicas that need not be immediately synchronized with the source data or with each other. The method allows an arbitrary mapping from source records to replica records. It is fail-safe, maximizes workstation autonomy, and is well suited to a network with slow, unreliable, and/or expensive communications links ...

13 File servers for network-based distributed systems

Liba Svobodova


December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4

Full text available:  [pdf\(4.23 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

14 Mobile wireless network system simulation

Joel Short, Rajive Bagrodia, Leonard Kleinrock

December 1995 **Wireless Networks**, Volume 1 Issue 4

Full text available:  [pdf\(1.70 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes an advanced simulation environment which is used to examine,

validate, and predict the performance of mobile wireless network systems. This simulation environment overcomes many of the limitations found with analytical models, experimentation, and other commercial network simulators available on the market today. We identify a set of components which make up mobile wireless systems and describe a set of flexible modules which can be used to model the various components ...

15 Providing reliable and fault tolerant broadcast delivery in mobile ad-hoc networks

Elena Pagani

October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3

Full text available:  pdf(423.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile ad-hoc networks are making a new class of mobile applications feasible. They benefit from the fast deployment and reconfiguration of the networks, are mainly characterized by the need to support many-to-many interaction schema within groups of cooperating mobile hosts and are likely to use replication of data objects to achieve performances and high data availability. This strong group orientation requires specialized solutions that combine adaptation to the fully mobile environment ...

16 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available:  pdf(233.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

17 U-Net: a user-level network interface for parallel and distributed computing (includes URL)

T. von Eicken, A. Basu, V. Buch, W. Vogels

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5

Full text available:  pdf(1.84 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 A federated approach to distributed network simulation

George F. Riley, Mostafa H. Ammar, Richard M. Fujimoto, Alfred Park, Kalyan Perumalla, Donghua Xu

April 2004 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 14 Issue 2

Full text available:  pdf(974.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We describe an approach and our experiences in applying federated simulation techniques to create large-scale parallel simulations of computer networks. Using the federated approach, the topology and the protocol stack of the simulated network is partitioned into a number of submodels, and a simulation process is instantiated for each one. Runtime infrastructure software provides services for interprocess communication and synchronization (time management). We first describe issues that arise in ...

Keywords: Simulation, distributed simulation, networks

19 Fast and flexible application-level networking on exokernel systems

Gregory R. Ganger, Dawson R. Engler, M. Frans Kaashoek, Hector M. Briceño, Russell Hunt, Thomas Pinckney

February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Full text available:  [pdf\(500.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Application-level networking is a promising software organization for improving performance and functionality for important network services. The Xok/ExOS exokernel system includes application-level support for standard network services, while at the same time allowing application writers to specialize networking services. This paper describes how Xok/ExOS's kernel mechanisms and library operating system organization achieve this flexibility, and retrospectively shares our experiences an ...

Keywords: Extensible systems, OS structure, fast servers, network services

20 TinyDB: an acquisitional query processing system for sensor networks

Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong

March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1

Full text available:  [pdf\(1.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We discuss the design of an acquisitional query processor for data collection in sensor networks. Acquisitional issues are those that pertain to where, when, and how often data is physically acquired (*sampled*) and delivered to query processing operators. By focusing on the locations and costs of acquiring data, we are able to significantly reduce power consumption over traditional passive systems that assume the a priori existence of data. We discuss simple extensions to SQL for controllability ...

Keywords: Query processing, data acquisition, sensor networks

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S10 8	100	S106 S107	USPAT	OR	OFF	2005/04/20 14:34
S10 9	303	server near2 farm	USPAT	OR	ON	2005/04/20 14:34
S11 0	60765	S94 S109	USPAT	OR	ON	2005/04/20 14:34
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S11 3	139	S105 and S112	USPAT	OR	ON	2005/04/20 14:35
S11 4	99	S97 and S113	USPAT	OR	ON	2005/04/20 14:35
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S11 9	22	S117 and port and node and cluster	USPAT	OR	ON	2005/04/26 13:49
S12 0	5124171	@ad<"20010503"	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2005/04/26 13:50
S12 1	111213	cluster\$4	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2005/04/26 13:50
S12 2	126151	port with (id identifier identification name number code designation)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2005/04/26 13:50
S12 3	245730	node	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2005/04/26 13:50
S12 4	1034	S120 and S121 and S122 and S123	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2005/04/26 13:51

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S12 7	4715	S125 not S119	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2005/04/26 13:52
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S14 4	8212	cluster\$3 with comput\$3	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/12 17:39
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S14 6	5135310	@ad<"20010503"	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/12 17:39
S14 7	3824	S144 and S146	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/12 17:39
S14 8	25708	S145 and S146	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/12 17:40
S14 9	2147009	node\$2 port\$2 output\$2 input\$2	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/12 17:40
S15 0	5016457	id\$2 identifier\$2 identification\$2 name\$2 numbe\$2 code\$2 designation\$2	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/12 17:40
S15 1	560192	S149 with S150	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/12 17:41
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S15 5	332579	S149 same S154	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/12 17:44

S15 6	256901	S149 with S154	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/12 17:45
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S16 5	331316	interrupt\$2	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:25
S16 6	2770281	generat\$4 creat\$4	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:25
S16 7	5135310	@ad<"20010503"	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:26

S16 8	41528	S166 with S165	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:26
S16 9	8241	cluster\$3 with comput\$3	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S17 0	39581	parallel\$3 with comput\$3	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S17 1	5135310	@ad<"20010503"	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S17 2	3824	S169 and S171	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S17 3	25708	S170 and S171	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S17 4	2150086	node\$2 port\$2 output\$2 input\$2	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S17 5	5021196	id\$2 identifier\$2 identification\$2 name\$2 numbe\$2 code\$2 designation\$2	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S17 6	561161	S174 with S175	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S17 7	28808	S172 S173	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S17 8	15086	S176 and S177	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S17 9	917220	register\$2 buffer\$2	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27

S18 0	257245	S174 with S179	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S18 1	257245	S179 and S180	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
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S18 3	206012	S179 with S175	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S18 4	5363	S182 and S183	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
S18 5	101013	"709"/\$.ccls. "370"/\$.ccls.	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
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S18 7	39710	"709"/\$.ccls.	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:27
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S19 0	256	logical-OR	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:54
S19 1	190	S167 and S190	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:54

S19 2	9335	prob\$3 with register\$2	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:54
S19 3	31351	prob\$3 with (register\$2 buffer\$2)	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 15:54
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S19 5	5	sequential near2 storage near2 commands near2 (register\$2 buffer\$2 memory)	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 17:11
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S19 7	774	sequential adj storage	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 17:11
S19 8	0	S196 and S197	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 17:11
S19 9	608	@ad<"20010503" and S197	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 17:11
S20 0	461	S197 same (command\$2 data)	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 17:12
S20 1	917220	register\$2 buffer\$2	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 17:12
S20 2	354	S200 and S201	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 17:12
S20 3	161	S200 same S201	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 17:12

S20 4	124	S203 and @ad<"20010503"	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2005/10/13 17:41
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| #8 | (cluster computer<in>metadata) and (transmit or transmitting or
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header value) |
| #9 | interconnect and node and port |
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